

**Catalyst for synthesizing methyl mercaptan from synthesized gas contg. hydrogen sulfide**

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**Abstract of CN1207957**

The catalyst has one carrier selected from SiO<sub>2</sub>, gamma-Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> or RE oxide and its active component Mo-S-K radical is transformed from precursor K<sub>2</sub>MoS<sub>4</sub> or (NH<sub>4</sub>)<sub>2</sub>MoS<sub>4</sub>+K<sub>2</sub>CO<sub>3</sub>. Under the conditions of 295 deg.c temperature, normal pressure, volume proportion of high-sulphur synthesis gas CO-H<sub>2</sub>-H<sub>2</sub>S being 1 to 2 to 0.1-1, and 2000-5000/hr space velocity, the catalyst can result in methyl mercaptan space-time yield of 0.15g/hr each gram of catalyst and selectivity of 98.5%.

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